

Certificate of Analysis

STANDARD REFERENCE MATERIAL 166c

Low-Carbon Stainless Steel (AISI 316L)

Analyst	Method	Carbon (percent)
1	Chromatographic ^{a,b}	0.0077
2	Chromatographic ^{a,c}0078
3	Chromatographic ^{a,d}0078
4	Chromatographic ^{a,e}0076
5	Chromatographic ^{f,g}0079
6	Chromatographic ^{a,h}0081
7	Chromatographic ^{a,i}0077
7	Gravimetric ^j0079
	Average	0.0078

^a 1g sample combusted by induction heating

^b Calibration based on NBS 166b

^c Calibration based on NBS 131a and 166b

^d Calibration based on NBS 55e, 131b and 335

^e Calibration based on NBS 55e

^f 0.5g sample combusted by resistance heating

^g Calibration based on NBS 131b and by CO₂ introduced by syringe

^h Calibration based on NBS 55e and German Standard 8a

ⁱ Calibration based on NBS 55e and 131b

^j 5g sample combusted by resistance heating

The material for this standard was prepared in powder form by water atomization at the Hoeganaes Corporation, Riverton, New Jersey. The material has been sized between 25 and 200 mesh sieves.

The overall direction and coordination of the technical measurements leading to certification were performed under the chairmanships of O. Menis and J. I. Shultz.

The technical and support aspects involved in the preparation, certification, and issuance of this standard reference material were coordinated through the Office of Standard Reference Materials by R. E. Michaelis.

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J. Paul Cali, Acting Chief
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